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 ... If only the **non-speculative** thread spawns **speculative** threads, performance gains of up to 30% are achieved when assuming ideal hardware. ...

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 ... **non-speculative** thread reaches the point where the first **speculative** thread started, it terminates and the first **speculative** thread becomes **non-speculative**. ...

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 ... This structure can be implemented in hardware [16, 12], eliminating fetch conflicts between **speculative** and **non-speculative** threads, or in software as a ...

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 ... 2.1.3. Task commits and squashes The oldest active task is **non-speculative** and can commit its **speculative** memory state (versions created by stores from this ...

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 ... First, it is important to distinguish **speculative** operations from **non-speculative** operations, since operations which have not been control speculated should ...

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 V Krishnan, J Torrellas - Proceedings of the 12th international conference on ..., 1998 - [portal.acm.org](#)

 ... This hardware should separate **speculative** updates from **non-speculative** ones and must allow **speculative** threads to acquire data from the appropriate producer ...

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... In general, a **speculative** thread will become **non-speculative** only when all its predecessors have committed, which guarantees that all its memory operations are ...

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... **Speculative** execution has been the focus of several recent proposals that ... proposals the memory access is overlapped with the **non-speculative** effective address ...

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... As explained above, machines with single control ow have to rely on the compiler to group together **speculative** and/or **non-speculative** data-independent ...

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